

NAGA SATYA LAKSHMI ASRITHA NIBHANUPUDI

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience across backend development, cloud infrastructure, DevOps, and distributed systems. Currently contributing to Java/Maven applications and AWS-native platforms spanning application code, event-driven workflows, private networking, infrastructure as code, observability, and production reliability. Experienced with AWS CDK/CloudFormation, ECS Fargate, Lambda, API Gateway, Aurora PostgreSQL, Kafka/MSK, Prometheus, and Grafana. Previously delivered 30% faster deployments and 60% shorter regression cycles at Oracle.

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, C++, JavaScript, Bash/Shell, C

Backend & Data: Maven, REST APIs, Microservices, PostgreSQL, MySQL, Flyway

Cloud & Infrastructure: AWS (ECS Fargate, Lambda, API Gateway, Aurora PostgreSQL, S3, VPC, VPC Endpoints, NLB/ALB, Route 53, PrivateLink), Kubernetes

DevOps & IaC: AWS CDK, CloudFormation, GitLab CI/CD, Docker, Linux, Git/GitHub, Nginx

Distributed Systems & Messaging: Apache Kafka/MSK, Strimzi Operator, Debezium CDC, EventBridge, SQS/DLQ

Observability & Reliability: Prometheus, Grafana, CloudWatch, PagerDuty, SLOs, AWS FIS, Disaster Recovery, Blue-Green Deployments

Identity & Security: OIDC, PingFederate, Keycloak, Lambda Authorizers

Core Concepts: OOP, DSA, Distributed Systems, Microservices, IaC, Agile/Scrum

CAREER EXPERIENCE

Goldman Sachs - Analyst, Software Engineering (SWE I)

May 2026 - Present

- Contributing to **Java/Maven application repositories** through GitLab merge-request workflows, implementing application changes, configuration updates, build/dependency improvements, integration fixes, and maintainability enhancements.
- Onboarded application traffic to a **hybrid API gateway architecture** spanning on-prem Nginx/IaC-managed firewall rules and multi-region AWS using private API Gateway, VPC endpoints, NLB, Lambda authorizers, and weighted Route 53 failover.
- Building and maintaining **AWS-native services and infrastructure** using AWS CDK/CloudFormation, ECS Fargate, Lambda, API Gateway, Aurora PostgreSQL, Flyway, and private VPC networking; developing and integrating event-driven workflows with Kafka/MSK, Debezium CDC, EventBridge, SQS/DLQ, and S3.
- Implemented **deployment and platform resilience improvements** through blue-green releases, ECS Auto Scaling, multi-region disaster recovery, Aurora Global Database failover automation, and AWS FIS resilience exercises.
- Executed **zero-downtime CloudFormation migrations** across live stateful infrastructure, refactoring cross-stack dependencies and adding pre-deployment validation for safer releases.
- Strengthening **production observability and operational reliability** using Prometheus, Grafana, and CloudWatch by implementing SLO-based monitoring, refining alerts, and troubleshooting issues across application and infrastructure layers.

Oracle India Pvt Ltd - Software Engineer (Automation & Infrastructure)

Aug 2024 - Apr 2026

- Optimized **GitLab CI/CD pipelines**, reducing deployment time by **30%** and improving release consistency across environments.
- Supported **Kubernetes deployments and Kafka/Strimzi upgrades**, troubleshooting infrastructure and distributed-system issues across environments.
- Automated **Keycloak identity and OpenSearch workflows** using REST APIs and Shell scripting, reducing manual operations by **50%**.
- Built **150+ Cypress test cases integrated with CI**, shortening regression cycles by **60%**; mentored teammates on Linux, Kubernetes, and pipeline troubleshooting.

Oracle India Pvt Ltd - Project Intern

Jan 2024 - Jul 2024

- Built reusable **Cypress modules for enterprise CI pipelines** and performed root-cause analysis of critical defects, contributing to a **20% reduction in defect leakage**.

PROJECTS

Multi-Level Authentication System (Encryption + RFID + PIN) - [IEEE ICMACC 2024](#)

- Co-authored a peer-reviewed paper on a standalone access-control system combining RFID and PIN-based authentication on microcontrollers, demonstrating layered hardware authentication principles.

EDUCATION

B.Tech, Electronics and Communication Engineering - VNR VJIE

Dec 2020 - Apr 2024

CGPA: 8.62 / 10